



# Extend your boat's life with protective treatment

Boats look their best when they have a durable surface finishing and colour. Various surface finishing products can be used to protect surfaces both inside and outside the boat. Personal preferences and boat's intended use affect on chosen colours. Unusual colours, such as warning colours, are typically used to provide extra safety. Tikkurila's paints and lacquers can be tinted to the desired colour at your nearest Temaspeed distributor's.





The popularity of boating has greatly increased due to the good connections from the sea to inland waterways. Breathtaking island sceneries, distinctive smells and sounds are elements of the life on the water. Getting to know this world is a unique experience. Taking regular care of your boat's cleanliness and safety makes the boating more pleasant.

#### Savings on costs

A boat should be serviced at regular intervals. Without adequate protection, an uncoated surface is vulnerable to variations in weather and climate as well as other environmental factors.

Service intervals of a boat can be extended considerably by choosing the right surface finishing. The treatments prevent corrosion and microbial intrusions under the paint coat. In the long run, they will also boost the boat's resale value.



#### **Surface finishing program**

#### **Preliminary treatments**

#### 1. Aluminium boats

an emulsion wash or alkaline MAALIPESU paint. cleaning detergent, after which the surfaces should be rinsed thoroughly with fresh, preferably warm, water.

To improve the adhesion of the paint, roughen the surfaces with sandpaper or **Painting the surfaces** light blast cleaning. Use either natural or First coat quartz sand. It is essential to roughen immersed points. Carry out the painting immediately after blast cleaning and immediately after the preliminary

#### 2. Steel boats

have been previously shot-blast and painted with shop primer, repeat the blast cleaning to bring damaged areas and welding joints to Sa21/2. Roughen other painted surfaces with light blasting. waterproof 2-pack epoxy filler after Remove the shop primer entirely from underwater structures before painting.

#### **3. Fibreglass and ABS plastic boats** Second coat

Repair a damaged or scratched gel coat Once the first coat has dried sufficiently, Remove grease, oil and soluble salts with finish with TEMACOAT RM 40 epoxy

> Enhance the looks of old plastic surfaces with an application 2-pack TEMADUR 50 or TEMADUR 90 polyurethane paint. Add approximately 50g of PANSSARI

Paint the pre-treated surfaces before the surfaces begin to rust or collect oxidation. treatment has dried to prevent oxidation. dirt. Apply the primer with a brush, airless spray or conventional spray. Areas that are difficult to reach will require additional Blast clean steel surfaces to preliminary layers of paint for desired coat thickness. treatment level Sa21/2. If the steel parts After the primer has dried, add an extra reinforcement coat on all areas vulnerable to corrosion, such as plate edges, holes, welding joints or places that are hard to paint. If surfaces need to be filled, use roughening and priming.

apply a second layer. Follow the minimum repaint times specified on the product data sheet.

#### Roughened deck surfaces

LIUKUESTE non-skid agent to 3 litres of TEMADUR 50/90 paint. Use a soft foam plastic roller for the application. Paint after priming the surfaces treatment once the surface has dried to avoid



# Lightweight aluminium boats

The grade of aluminium used to make boats is extremely durable. It is lightweight in structure and hence easy to handle. The aluminium can be painted to improve the boat's looks and further enhance its durability. The painted surface pleases the eye year in year out.



#### **Treatment systems for aluminium boats**

Location	Treatment system		Minimum times before	next application +5°C +10°C +23°C +35	Theoretical coverage ℃ µm/m²/l
Bottom, below water level	TEMACOAT RM 40 Dry film thickness total	2 x 125 μm 250 μm	TEMACOAT RM 40 immersed With Hardener 008 5600 With Hardener 008 5605	36h 16h 81 8h 12h 61	
Hull, above water level, decks and deck structures	Alternative 1. TEMACOAT RM 40 TEMADUR 50/90 Dry film thickness total	2 x 100 µm 1 x 50 µm 250 µm	TEMACOAT RM 40 With Hardener 008 5600 With Hardener 008 5605 TEMADUR 50/90 Touch dry	10 h 4 h 2 h 6 h 3 h ½ 8 h 6 h 4 h 2 ½	n '
	Alternative 2. TEMAPRIME EE TEMALAC AB70 /ML90 Dry film thickness total	2 x 50 μm 1 x 40 μm 140 μm	TEMAPRIME EE TEMAPRIME AB 70 / ML 90 Touch dry	4 h 45 min <sup>1</sup> / <sub>2</sub> 3 8 h 5 h 3	
	Note! For a high-gloss finit CLEAR lacquer can be ap TEMADUR 1 x 40 µm.		TEMADUR CLEAR Touch dry	12 h 8 h 4 h 2	TEMADUR CLEAR h 40 µm / 10–11 m²/l

Read the product data sheets and labels carefully prior to painting.

#### 1-pack products **TEMAPRIME EE**

is a fast drying special primer with excellent anticorrosion qualities. Suitable for steel, aluminium and zinc surfaces. Used as a primer for interior and exterior surfaces on ships and other such locations where the primer is required to have exceptionally good anticorrosion qualities and adhesion to the substrate. Finish: Matt. Colours: Reddish brown (TVT 4000) and grey (TVT 4001). The product is part of the TEMASPEED PREMIUM tinting system. Thinner: 1006. For larger surfaces Thinner 1053 (slow). Cleaning of equipment: Thinner 1006.



#### 2-pack products (hardener must to be added)

#### **TEMACOAT RM 40**

is a resin-modified epoxy paint that forms is an acrylic polyurethane paint that a film to resist hard wear, immersion in resists weathering and wear. water and chemicals. Suitable for use as Recommended as a topcoat for a primer and finishing paint on steel, polyurethane and epoxy systems on aluminium, and zinc surfaces and for Pot life: 8 h (23°C) when Hardener 008 Semi-matt, semi-gloss or high-gloss. 5600 is used. Finish: Semi-gloss. Colours: Colours: RAL, NCS, SSG, BS, and RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards. cleaning of equipment: Thinner 1031.

#### **TEMADUR 20, 50, 90**

surfaces subjected to weathering and underground and underwater structures. chemical stress. Pot life: 4 h (23°C). Finish: Also suitable for lacquering copper, brass, MONICOLOR NOVA and SYMPHONY colour cards. The product is part of the 1061. Cleaning of equipment: Thinner The product is part of the TEMASPEED TEMASPEED PREMIUM tinting system. 1048, 1067 or 1061. PREMIUM tinting system. Thinner and Thinners: 1048 or 1067. For conventional spraying also Thinner 1061 (fast). Cleaning of equipment: Thinner 1048, 1067 or 1061.

#### **TEMADUR CLEAR**

is an acrylic polyurethane lacquer that resists weathering and wear superbly as a topcoat lacquer for polyurethane systems. Forms a non-chalking finish that retains its gloss and is easy to clean. aluminium and zinc finishes. Finish: High gloss. Colour: Clear. Thinners: 1048 or 1067. For conventional spraying Thinner

# Durable steel boats

Corrosion resistance of steel boats is greatly enhanced by surface finishing. A dense and hard finishing effectively prevents the steel from rusting – weather changes cannot penetrate the surface. A correctly chosen surface finishing gives the best possible protection against environmental stresses and other strains.





### 1-pack products

#### **TEMALAC ML 90**

is an alkyd finishing paint for steel surfaces. The treatment retains its gloss and colour well in weathering. Suitable for wet-on-wet painting and for topcoats on small tanks etc. Finish: High gloss. Colours: RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards. The product is part of the TEMASPEED PREMIUM tinting system.

#### TEMAPRIME EE

is a fast-drying special primer with excellent anticorrosion qualities. Suitable for steel, aluminium and zinc surfaces as a primer, for interior and exterior surfaces of boats, for outer surfaces of tanks, and for other locations where the primer is required to have exceptionally good anticorrosion qualities and adhesion to the substrate. Also suitable for surfaces which have to be flame cut or welded after priming. The primer burns only slightly. The burnt paint can be easily removed with a steel brush. Finish: Matt. Colours: Reddish brown (TVT 4000) and grey (TVT 4001). The product is part of the TEMASPEED PREMIUM tinting system. Thinner: 1006. On larger surfaces, Thinner 1053 (slow). Cleaning of equipment: Thinner 1006.

Location	Treatment system	Minimum times before next application  0°C +5°C +10°C +23°C +35°C	Theoretical coverage µm/m²/l
Bottom, below water level	TEMACOAT RM 40 3 x 100 μm Dry film thickness total 300 μm	Immersed   With Hardener 008 5600 36 h 16 h 8 h   With Hardener 008 5605 18 h 12 h 6 h	TEMACOAT RM 40 125 μm / 5–6 m²/l
Hull, above water level, decks and deck	Alternative 1. TEMACOAT RM 40 2 x 100 µm TEMADUR 50/90 1 x 50 µm Dry film thickness total 250 µm	TEMACOAT RM 40 With Hardener 008 5600 With Hardener 008 5605 10 h 4 h 2 h 6 h 3 h 1 h	TEMADUR 50/90 50 µm / 11–12 m²/l
structures	Alternative 2.  TEMAPRIME EE 2 x 50 µm  TEMALAC AB 70 / ML 90 1 x 40 µm  Dry film thickness total 140 µm	TEMAPRIME EE 4 h 45 min ½ h TEMAPRIME AB 70/ ML 90 Touch dry 8 h 5 h 3 h	TEMAPRIME EE 40 µm / 11–12 m²/l TEMAPRIME AB 70/ ML 90 50 µm / 9–10 m²
	Note! For a high-gloss finish, TEMADUR CLEAR lacquer can be applied on top of TEMADUR 1 x 40 µm.	TEMADUR CLEAR Touch dry 12 h 8 h 4 h 2 h	TEMADUR CLEAR 40 µm / 10–11 m²/l

Read the product data sheets and labels carefully prior to painting.



#### 2-pack products (hardener must be added)

#### **TEMACOAT RM 40**

and finishing paint on steel, aluminium, systems on surfaces subjected to underground and underwater structures. also as a single-coat paint on steel, NOVA and SYMPHONY colour cards. BS, MONICOLOR NOVA and

#### **TEMADUR 20, 50, 90**

is a resin-modified epoxy paint that forms is an acrylic polyurethane paint that resists is an acrylic polyurethane lacquer that a film to resist hard wear, immersion in weathering and wear. Recommended as resists weathering and wear superbly as water and chemicals. Used as a primer a topcoat for polyurethane and epoxy a topcoat lacquer for polyurethane and zinc surfaces. Also suitable for weathering and chemical stress. Used that retains its gloss well and is easy to Pot life: 8 h (23°C) when using Hardener aluminium and zinc surfaces. Pot life: 008 5600. Finish: Semi-gloss. Colours: 4 h (23°C). Finish: Semi-matt, semi-gloss. High gloss. Colour: Clear. Thinners: 1048 RAL, NCS, SSG, BS, MONICOLOR or high-gloss. Colours: RAL, NCS, SSG, or 1067. For conventional spraying also The product is part of the TEMASPEED SYMPHONY colour cards. The product Thinner 1048, 1067 or 1061. PREMIUM tinting system. Thinner and is part of the TEMASPEED PREMIUM cleaning of equipment: Thinner 1031. tinting system. Thinners: 1048 or 1067. For conventional spraying also Thinner 1061 (fast). Cleaning of equipment: Thinner 1048, 1067 or 1061.

#### **TEMADUR CLEAR**

systems. Forms a non-chalking finish clean. Also suitable for lacquering copper, brass, aluminium and zinc finishes. Finish: Thinner 1061. Cleaning of equipment:

# Attractive fibreglass and ABS plastic boats

Practicality and easy maintenance combine in fibreglass and plastic boats. Yet, a suitable protective treatment is needed to keep the boat's surfaces tidy throughout the boating season. Furthermore, pure colour combinations will make your boat look more attractive.



# **Plastic**

#### Treatment systems for fibreglass and ABS plastic boats

	Location	Treatment system	Minimum times before next application +5°C +10°C +23°C +35°C	Theoretical coverage µm/m²/I
1	Bottom, pelow water level	TEMACOAT RM 40 Dry film thickness total  2 x 100 µm 200 µm	TEMACOAT RM 40 immersed With Hardener 008 5600 36 h 16 h 8 h With Hardener 008 5605 18 h 12 h 6 h	TEMACOAT RM 40 100 μm / 5–6 m²/l
w d	Hull, above water level, decks and deck structures	TEMACOAT RM 40 1 x 100 µm TEMADUR 50/90 1 x 50 µm Dry film thickness total 150 µm	TEMADUR 50/90 Touch dry 8 h 6 h 4 h 2 h	TEMADUR 50/90 50 μm / 11–12 m²/l
		Note! For a high-gloss finish, TEMADUR CLEAR lacquer can be applied on top of TEMADUR 1 x 40 µm.	TEMADUR CLEAR Touch dry Dry film thickness 40 µm 12 h 8 h 4 h 2 h	TEMADUR CLEAR 40 µm / 10–11m²/l

Read the product data sheets and labels carefully prior to painting.





#### 2-pack products (hardener must be added)

#### **TEMACOAT RM 40**

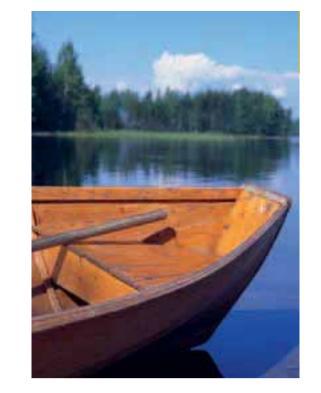
and finishing paint on fibreglass and ABS systems on surfaces subjected to Pot life: 8 h (23°C) when using Hardener BS, MONICOLOR NOVA and Colours: RAL, NCS, SSG, BS, colour cards. The product is part of the 1061 (high-speed). Cleaning of Thinner and cleaning of equipment: Thinner 1031.

#### **TEMADUR 20, 50, 90**

is a resin-modified epoxy paint that forms is an acrylic polyurethane paint that resists is an acrylic polyurethane lacquer that water and chemicals. Used as a primer as a topcoat for polyurethane and epoxy a lacquer for polyurethane systems. concrete surfaces. Suitable also for (23°C). Finish: Semi-matt, semi-gloss or suitable for lacquering copper, brass, 008 5600. 4 h (23°C) when using SYMPHONY colour cards. The product 1067. For conventional spraying also Hardener 008 5605. Finish: Semi-gloss. is part of the TEMASPEED PREMIUM Thinner 1061. Cleaning of equipment: tinting system. Thinners: 1048 or 1067. Thinner 1048, 1067 or 1061. MONICOLOR NOVA and SYMPHONY For conventional spraying also Thinner TEMASPEED PREMIUM tinting system. equipment: Thinner 1048, 1067 or 1061.

#### **TEMADUR CLEAR**

a film to resist hard wear, immersion in weathering and wear. Recommended resists weathering and wear superbly as Forms a non-chalking finish that retains plastic, steel, aluminium, zinc and weather and chemicals. Pot life: 4 h its gloss well and is easy to clean. Also underground and underwater structures. high-gloss. Colours: RAL, NCS, SSG, aluminium and zinc finishes. Finish: High gloss. Colour: Clear. Thinners: 1048 or



## Traditional wooden boats

Wood is a natural material that presents an intriguing challenge. It requires systematic maintenance but at the same time it creates a wonderful atmosphere with its pleasing appearance. Nothing beats the warmth and natural scents of a wooden boat. Thanks to its ecological virtues, the traditional wooden crafts have become a lifestyle to many.

#### **Surface finishing** program for wooden boats:

## surfaces

Preliminary treatment Remove loose or flaking lacquer mechanically by sanding it off. Wash the surfaces carefully with MAALIPESU accordance with the instructions on the do not need to be primed with product data sheet.

#### Lacquering above the waterline

Topcoat lacquer:

Sand previously lacquered surfaces to roughen them (e.g. to roughness level or three coats of thinned 10 - 20 % the surface down and remove the resulting dust.

#### **New surfaces**

Preliminary treatment If the wooden surface of the boat has been attacked by mould or it has suffered discolouration before the surface treatment, wash it with HOMEENPOISTO

1 mould removal solution. Follow the instructions found on the product data For the topcoat lacquer, use either 10sheet. Apply PINJASOL COLOR primer 20 % thinned MERIT JAHTI or unthinned to a clean and dry wooden surface. Use MERIT JAHTI PRO in 2 or 3 coats for Previously lacquered wooden the primer either uncoloured or tinted the desired level of gloss. Between coats, according to the Translucent Wood Preservative colour card. Tinted primer The durability of the lacquered finish can will protect the wooden surface more also be affected by the proper effectively than the uncoloured product. maintenance of the boat. It is important Apply the lacquer 24 hours after the cleaning detergent or similar product in priming. Mahogany and teak surfaces it over before the winter season. This PINJASOL COLOR. Wash teak surfaces This also prevents the lacquer from with GENERAL THINNER 1060.

### Lacquering above the waterline

Priming with lacquer:

240) and brush off the dust. Apply two use high-gloss MERIT JAHTI or MERIT the boat. Brush the surfaces with the JAHTI PRO. If you are using MERIT MERIT JAHTI or unthinned MERIT JAHTI JAHTI, thin the first application roughly PRO lacquer. In between coats, sand 30 % with THINNER 1054. To improve the drying of the lacquer surface, thin the next 2 or 3 coats roughly 10-20 %. If applying MERIT JAHTI PRO, thin the first coat 30 % with THINNER 1054. Apply subsequent coats with unthinned lacquer. Sand the lacquered surface and remove the dust before each subsequent application.

sand the surface and remove the dust. to lift your boat from the water and turn will give the wooden parts time to dry. peeling and the wood from splitting.

When carrying out spring servicing, it is a good idea to check the lacquer surface For priming a boat with lacquer, always and repair any damage before launching same lacquer that was used previously.



#### **Treatment systems for wooden boats**

Location	Treatment system	Drying + 23°C	Theoretical coverage µm/m²/l
Hull and other wooden structures	Alternative 1.  MERIT JAHTI 2-4 x gloss grades 20/30/80  Brush or spray application. Thinning 10-30 % by vol., Thinner 1054.	Can be recoated after 24 h  Next lacquer coat can be applied after 24h.	100 μm/4–6 m <sup>2</sup> / l
	Alternative 2. MERIT JAHTI PRO 2–4 x semi-gloss/gloss  Brush or spray application. Airless spray, nozzle size 0.009" (0.230 mm) or 0.013" (0.330 mm)  Thinning 0–30 % by vol., Thinner 1054.	Can be lacquered after 12 h Fully hardened and fully resilient in approx. 2 weeks.	100 μm/3–5 m <sup>2</sup> / l
For colouring wood	PINJASOL COLOR can be used to colour wood according to the Translucent Wood Preservative colour card. All the colours can also be mixed or made lighter with a clear product. Thinner 1054.	The next application can be carried out 24 h later.	

Read the product data sheets and labels carefully prior to painting.

#### 1-pack products

#### **MERIT JAHTI 20, 30, 80**

resistant to wear. Washable with all and other wooden surfaces indoors and Semi-matt and gloss. Colours: can be outdoors. Finish: Semi-matt and gloss. tinted with SYMPHONY OR Thinner and cleaning of equipment: TEMASPEED PREMIUM colourants. Thinner 1054.

#### **MERIT JAHTI PRO 20, 80**

containing UV protective agent. Highly polyurethane lacquer . Washable with all contains anti-rot and anti-mould agents. common detergents (SFS 3755) as well Used on wooden interior and exterior common detergents (SFS 3755) as well as solvents such as petroleum, naphtha, surfaces such as boats, floors, doors as solvents such as petroleum, naphtha, petroleum spirit and denaturised alcohol and windows. Pot life (23°C): 6 months. petroleum spirit and denaturised alcohol with the exception of thinner. Also resists Finish: Matt. Colours: Clear and VALTTI with the exception of thinner. Also resists vegetable and animal oils as well as COLOR colour cards with some lubricant oil and grease. Suitable for interior and exterior surfaces such as equipment: Thinner 1054. lacquering boats, floors, doors, windows boats, floors, doors and windows. Finish: Thinner and cleaning of equipment: Thinner 1054.

#### **PINJASOL COLOR**

is a single-pack polyurethane lacquer is a highly wear-resistant, single-pack is a translucent wood preserver that





Tikkurila paints and lacquers are available in almost any colour and several different gloss levels. Our TEMASPEED PREMIUM tinting system includes all the main colouring systems, such as SYMPHONY, NCS, RAL, British Standards and SSG. Thanks to Tikkurila's sophisticated software and Colour Matching System you get exactly the colours you need – all we require is a colour sample to be matched.

Tikkurila's Temaspeed distributor network brings us close to the customer. More than 200 distributors across Europe guarantee fast deliveries and expert, hands-on service.

For further information of Tikkurila Coatings' products and services, contact your nearest Tikkurila representative. Our specialists are happy to advise you on all topics related to surface finishing.

You can find all the product data sheets and the contact details of Temaspeed distributors from www.temaspeed.com.



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